

08045400 Lake Worth above Fort Worth, TX

Upper Trinity Basin
Lower West Fork Trinity Subbasin

LOCATION.--Lat 32°47'21", long 97°24'58" referenced to North American Datum of 1927, Tarrant County, TX, Hydrologic Unit 12030102, on top of Lake Worth Dam on West Fork Trinity River, 240 ft to right of right end of uncontrolled concrete spillway, 2.9 mi upstream from Farmer's Branch, 3.3 mi upstream from bridge on State Highway 183 crossing West Fork Trinity River, 5.3 mi northwest of Tarrant County Courthouse in Fort Worth, and at mile 572.0.

DRAINAGE AREA.--2,064 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1981 to current year. Water-quality records: Chemical data: Apr. 1971 to May 1984, Apr. 1999. Pesticide data: Apr. 1999. Radiochemical data: Apr. 1999.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

COOPERATION.--Capacity Table 1-C was provided by U.S. Army Corps of Engineers, and put into effect Feb. 1968. Capacity Table 2 was provided by the Texas Water Development Board and put into effect Oct. 2003.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 3,200 ft long, with an uncontrolled concrete spillway 700 ft long near the center of the dam. Deliberate impoundment began in June 1914 and the dam was completed in Oct. 1914. There is a 48-in diameter pipe controlled by a 36-in valve, which may be used to make small releases through the dam. The dam is owned by the city of Fort Worth. Conservation pool storage is 38,130 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	606.3
Crest of concrete spillway.....	594.0
Lowest gated outlet (invert).....	584.25

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 56,040 acre-ft, May 3, 1990, elevation, 598.70 ft; minimum contents, 23,120 acre-ft, May 29, 30, 2006, elevation, 590.78 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 36,160 acre-ft, Mar. 23, Apr. 13, elevation, 594.77 ft; minimum contents, 27,100 acre-ft, Sept. 23,24, elevation, 592.07 ft.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	31,210	30,600	30,970	30,460	30,230	30,040	33,150	33,630	30,760	31,250	30,710	28,760
2	31,110	30,540	31,120	30,380	30,290	29,970	32,930	33,630	30,520	31,210	30,760	28,730
3	30,990	30,530	30,980	30,320	30,400	30,630	32,840	33,410	30,450	31,140	30,740	28,700
4	30,910	30,520	30,940	30,330	30,560	30,630	32,950	33,120	30,360	31,080	30,650	28,390
5	30,850	30,500	31,000	30,440	30,860	30,590	33,000	32,980	30,230	31,020	30,560	28,180
6	30,830	30,400	30,960	30,530	30,770	30,700	33,160	33,200	30,310	30,910	30,480	28,040
7	30,790	30,370	31,020	30,660	30,730	30,780	33,340	33,350	30,270	30,790	30,480	27,920
8	30,760	30,370	31,110	30,830	30,650	30,580	33,530	33,280	30,220	30,680	30,430	27,800
9	30,710	30,410	31,170	30,700	30,600	30,520	34,030	33,190	30,260	30,630	30,360	27,830
10	30,620	30,360	31,110	30,750	30,580	30,710	34,420	33,120	30,270	30,620	30,290	27,870
11	30,580	30,320	31,240	30,610	30,570	30,640	34,640	33,020	30,090	30,590	30,280	28,010
12	30,530	30,270	31,510	30,660	30,650	30,490	35,620	32,820	30,000	30,580	30,320	27,950
13	30,500	30,140	31,570	30,660	30,480	30,420	35,980	32,770	30,010	30,680	30,260	27,910
14	30,500	30,060	31,480	30,690	30,410	30,530	35,130	32,890	30,010	30,700	30,200	27,670
15	30,930	29,850	31,580	30,710	30,510	30,650	34,110	32,940	30,030	30,720	30,840	27,380
16	30,960	29,700	31,290	30,790	30,650	30,620	33,680	32,830	29,980	30,780	30,960	27,340
17	30,940	29,780	31,100	30,860	30,720	30,660	33,680	32,720	29,970	30,790	30,910	27,320
18	30,870	29,950	31,020	30,780	30,610	31,660	34,690	32,680	29,990	30,780	31,240	27,320
19	30,770	30,140	30,900	30,800	30,530	33,660	34,060	32,580	30,630	30,740	31,560	27,340
20	30,680	30,320	30,830	30,720	30,530	35,370	33,710	32,460	30,960	30,740	31,490	27,340
21	30,610	30,610	30,720	30,770	30,580	35,600	33,570	32,250	30,940	30,710	31,250	27,330
22	30,970	30,540	30,880	30,910	30,500	35,850	33,440	32,040	30,930	30,700	30,950	27,280
23	30,890	30,440	30,640	30,740	30,380	36,060	33,380	31,900	30,890	30,670	30,690	27,210
24	30,850	30,520	30,620	30,620	30,390	35,750	33,840	31,770	30,820	30,610	30,460	27,180
25	30,770	31,080	30,570	30,580	30,380	34,570	33,960	31,610	30,760	30,630	30,240	27,210
26	30,720	31,120	30,700	30,530	30,350	33,980	33,830	31,410	30,680	30,650	29,960	27,260
27	30,710	31,050	30,620	30,380	30,130	33,700	33,920	31,380	30,600	30,620	29,660	27,270
28	30,700	31,060	30,640	30,250	30,030	33,570	33,820	31,520	30,670	30,540	29,360	27,270
29	30,680	31,030	30,530	30,360	30,080	33,410	33,710	31,350	31,070	30,480	29,070	27,260
30	30,620	30,990	30,510	30,080	---	33,300	33,630	31,140	31,220	30,520	28,960	27,240
31	30,600	---	30,510	30,370	---	33,210	---	30,940	---	30,550	28,870	---
Total	954,160	913,570	959,840	948,270	884,150	998,850	1,015,750	1,007,930	913,900	953,110	942,990	830,310
Mean	30,780	30,450	30,960	30,590	30,490	32,220	33,860	32,510	30,460	30,750	30,420	27,680
Max	31,210	31,120	31,580	30,910	30,860	36,060	35,980	33,630	31,220	31,250	31,560	28,760
Min	30,500	29,700	30,510	30,080	30,030	29,970	32,840	30,940	29,970	30,480	28,870	27,180

	Calendar Year 2007	Water Year 2008
Total	11,129,730	11,322,830
Mean	30,490	30,940
Max	40,940	36,060
Min	24,030	27,180

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